

FIG. 1

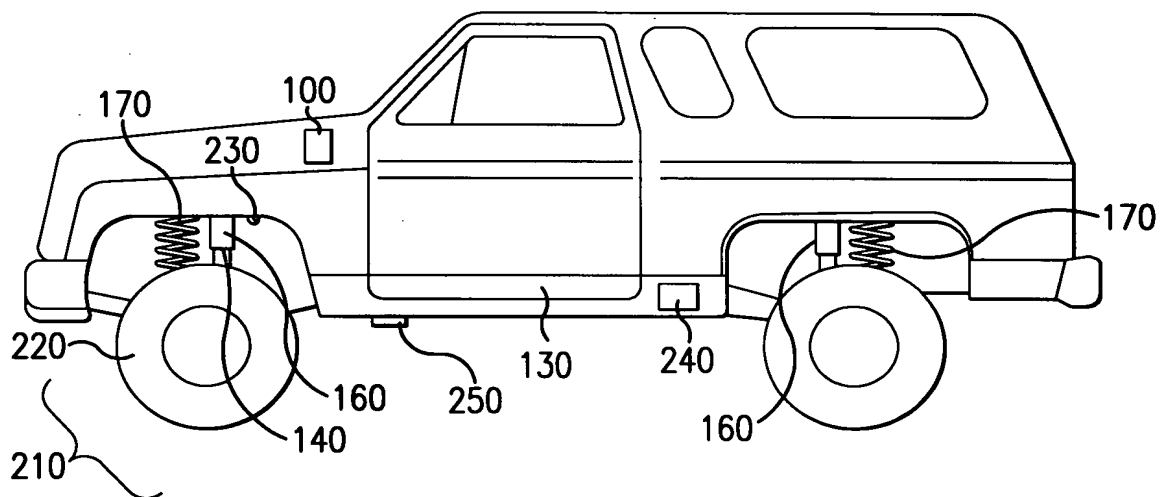


FIG.2

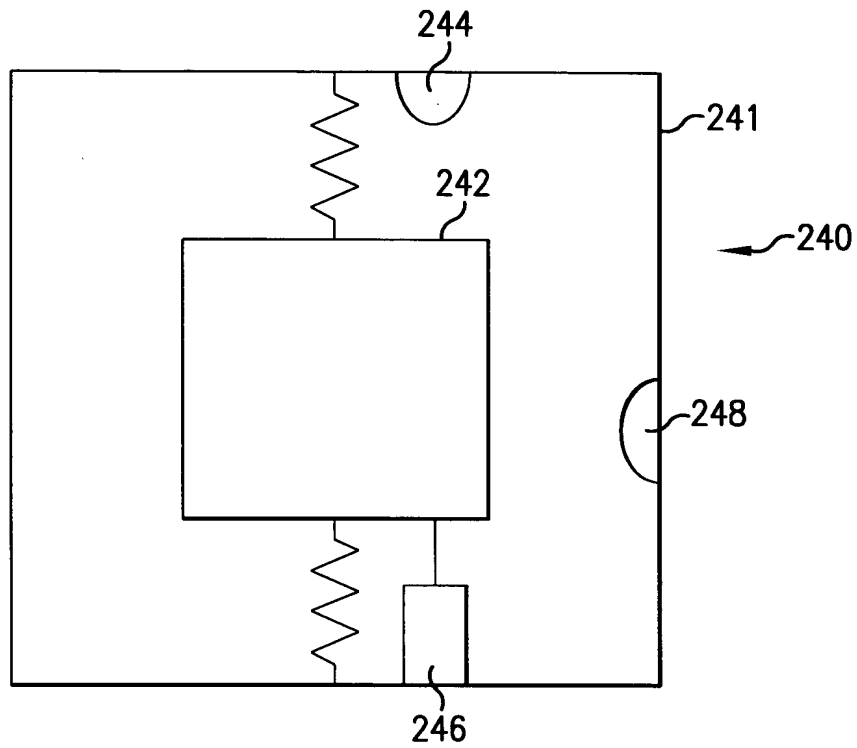


FIG.3

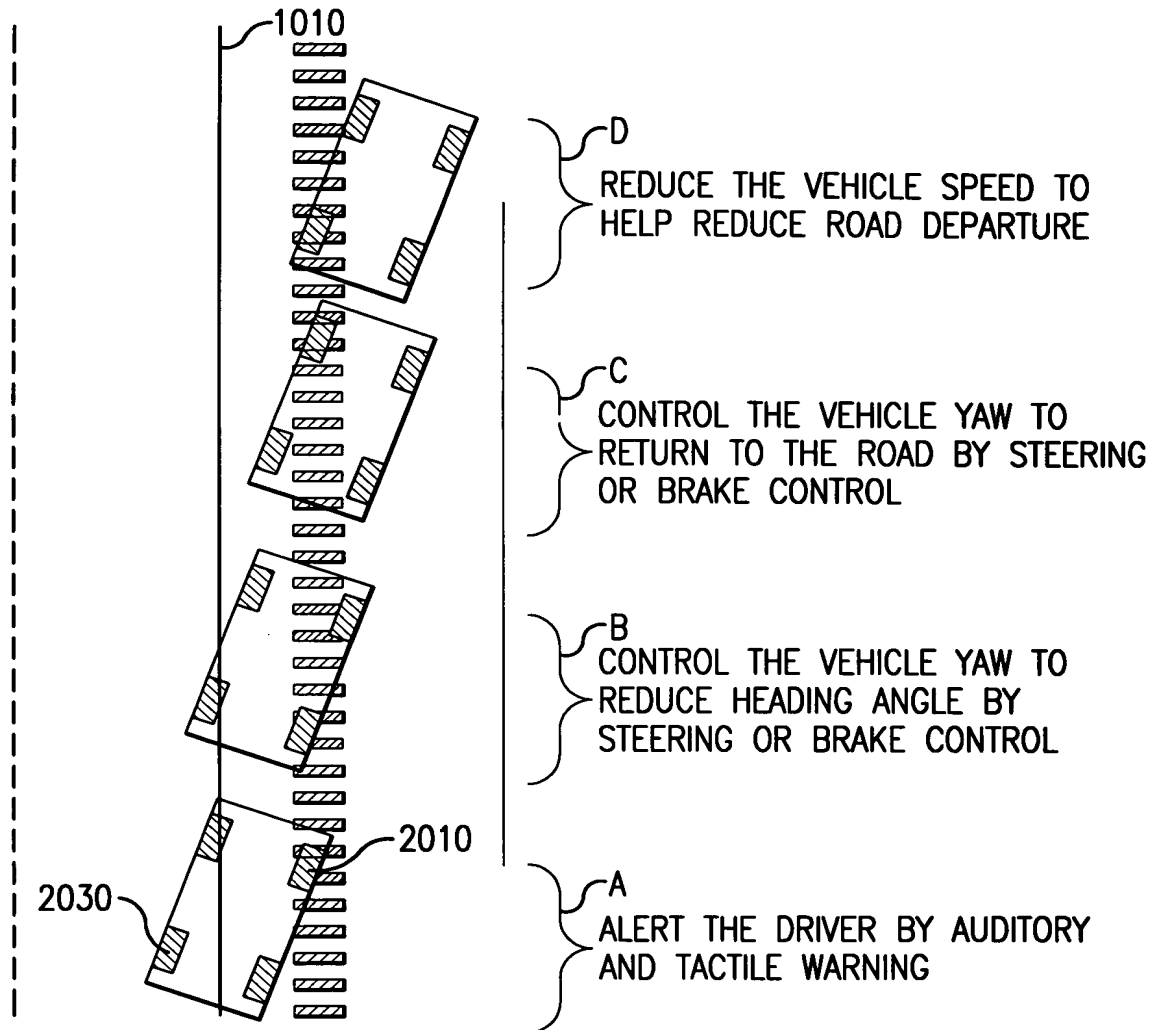


FIG.4

CALCULATION OF THE LATERAL SPEED AT DEVIATION

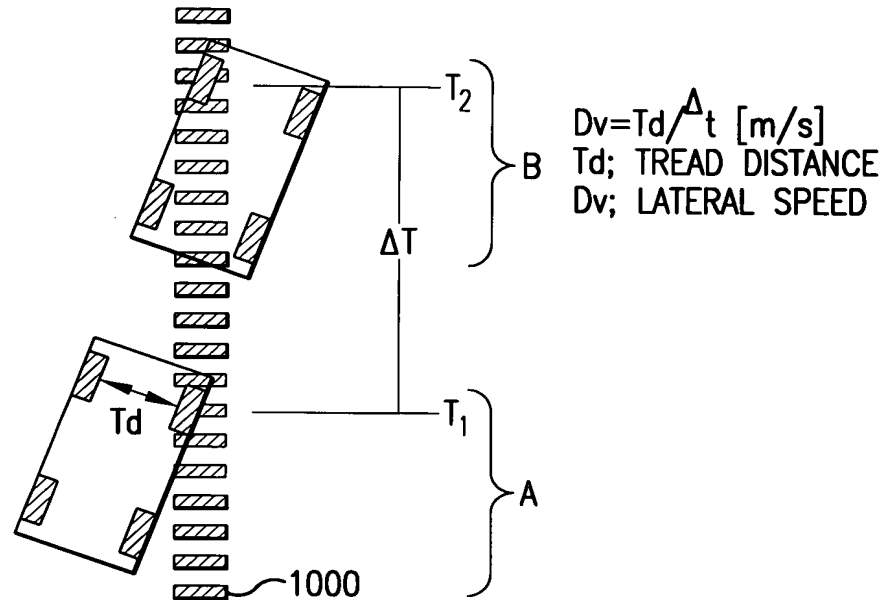


FIG. 5a

CALCULATION OF THE HEADING ANGLE AT DEVIATION

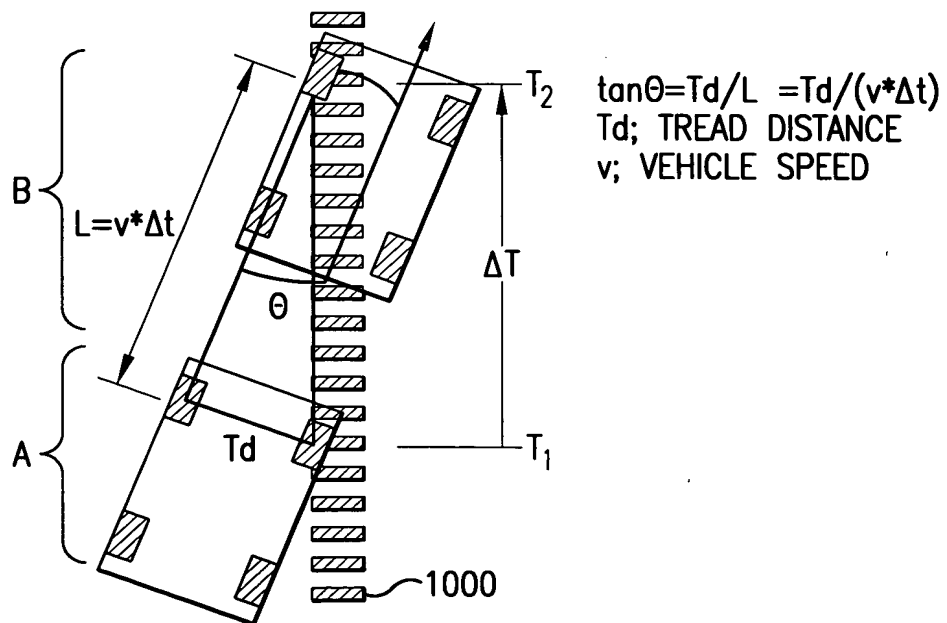


FIG. 5b

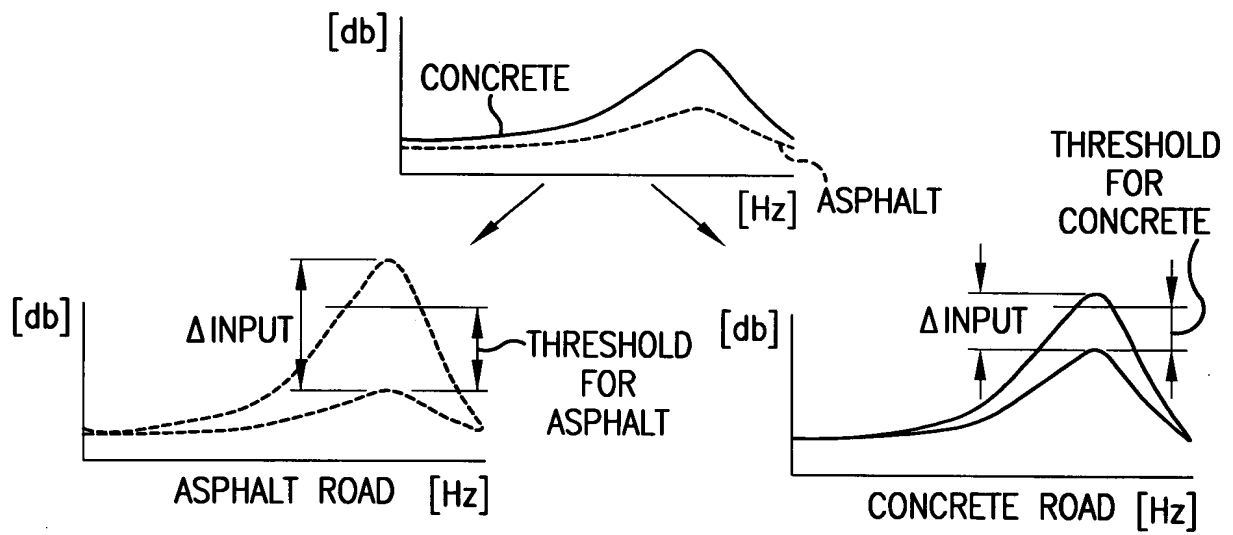


FIG.6

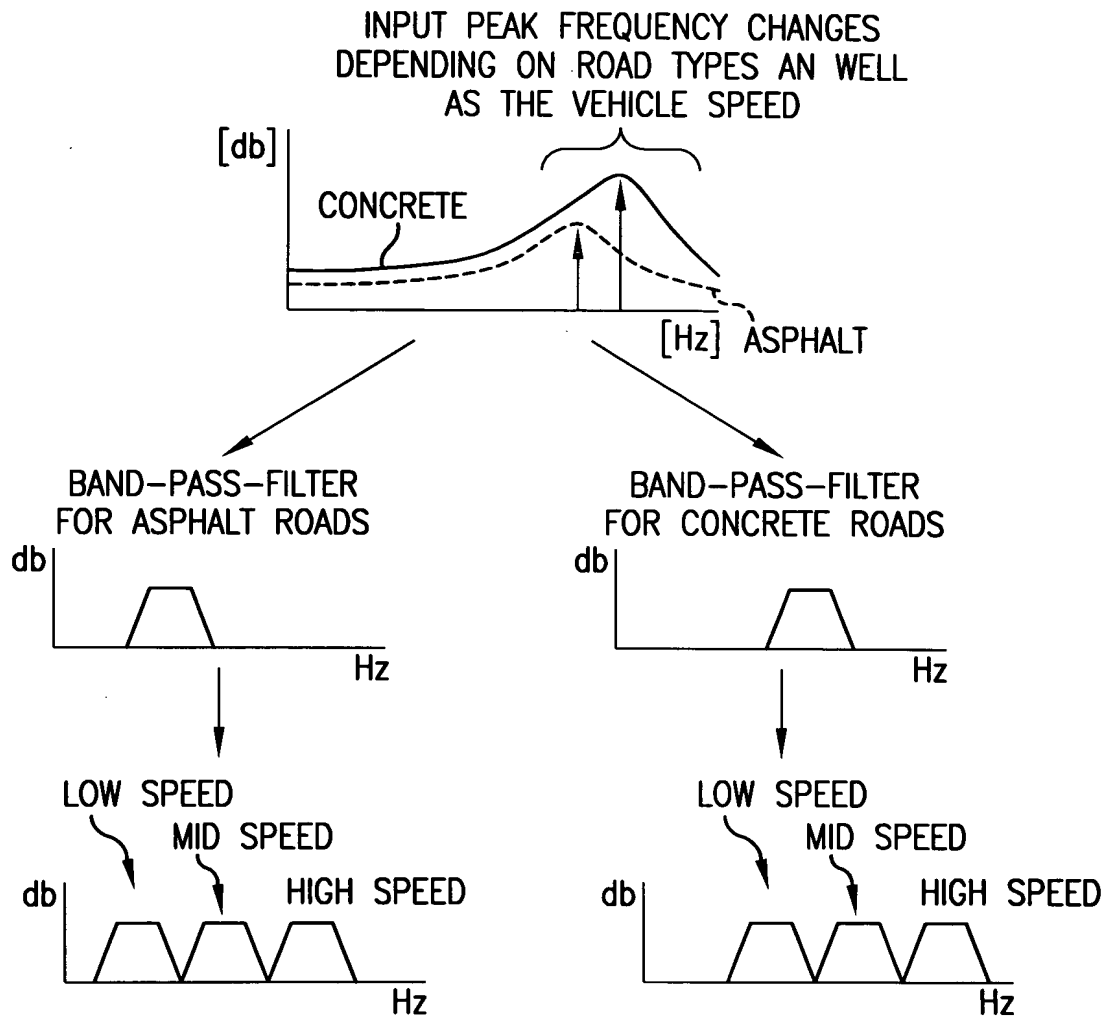


FIG.7

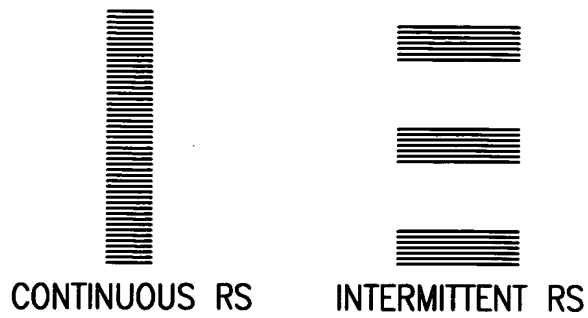


FIG. 8

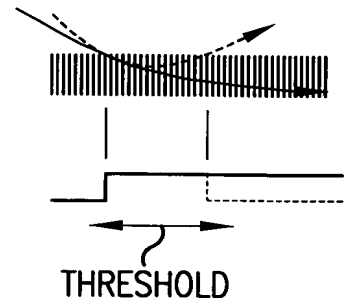


FIG. 9

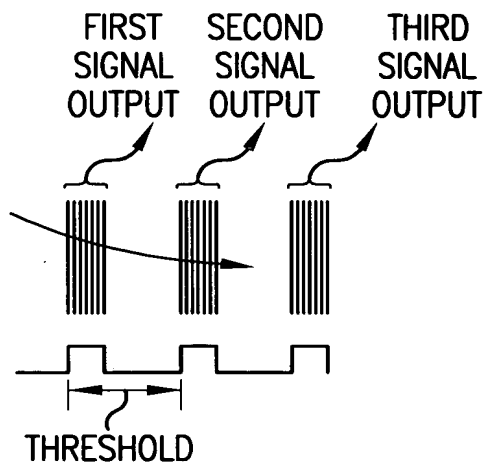


FIG. 10

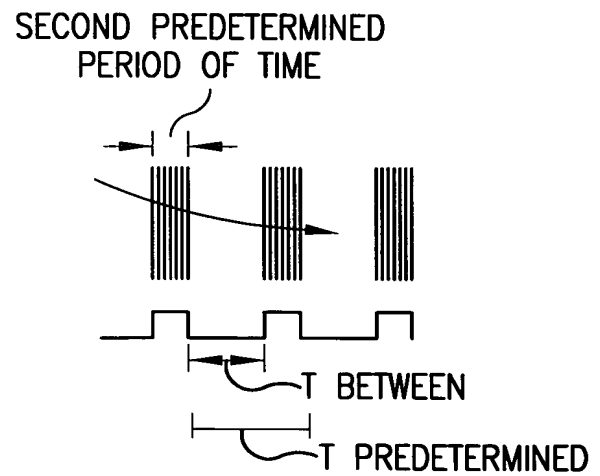


FIG. 11

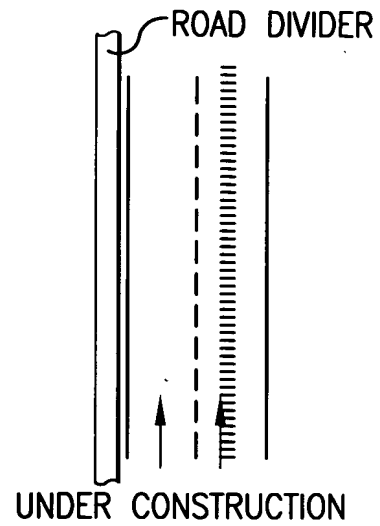


FIG.12

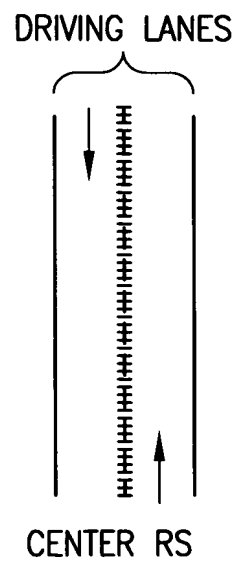


FIG.13

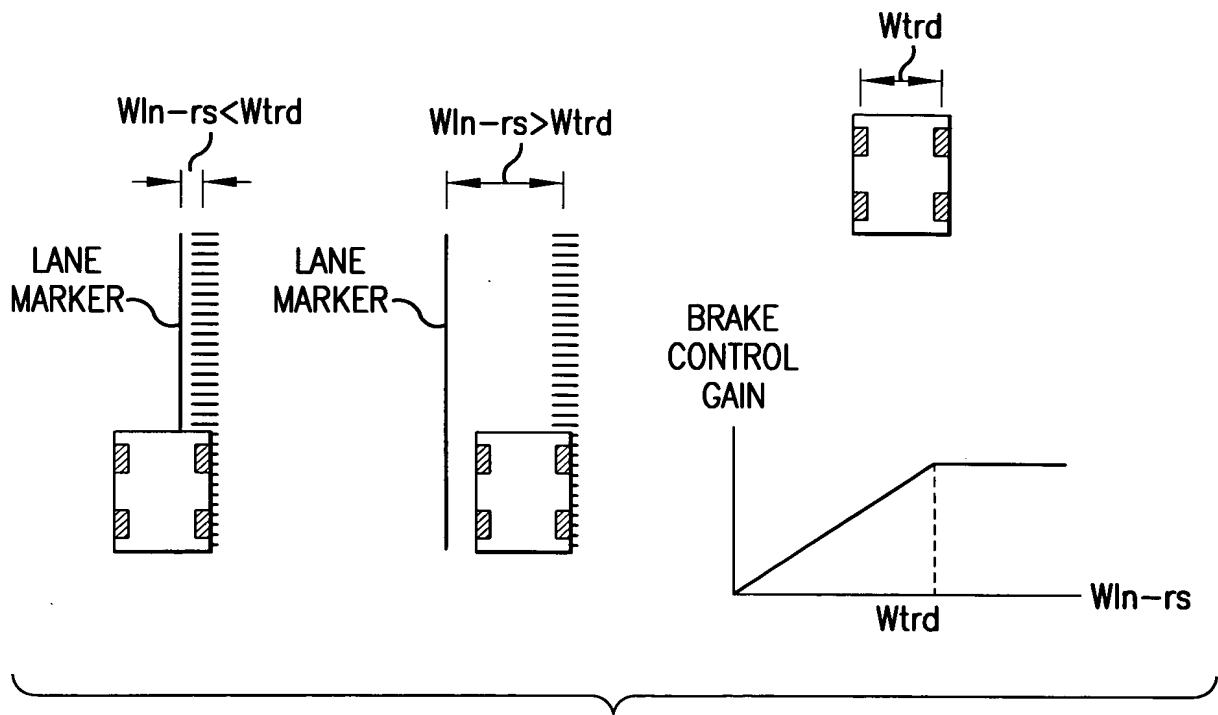


FIG.14

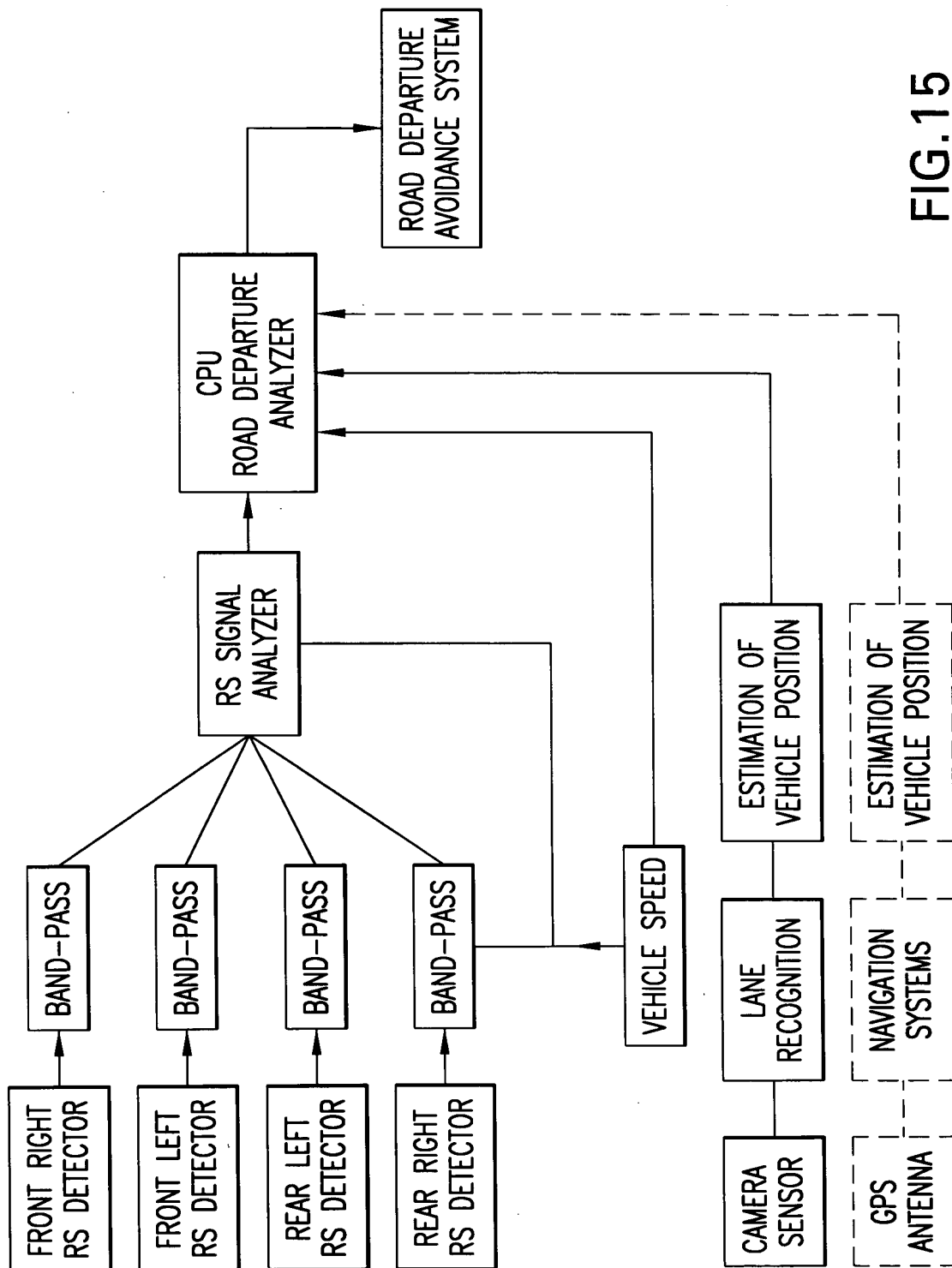


FIG.15

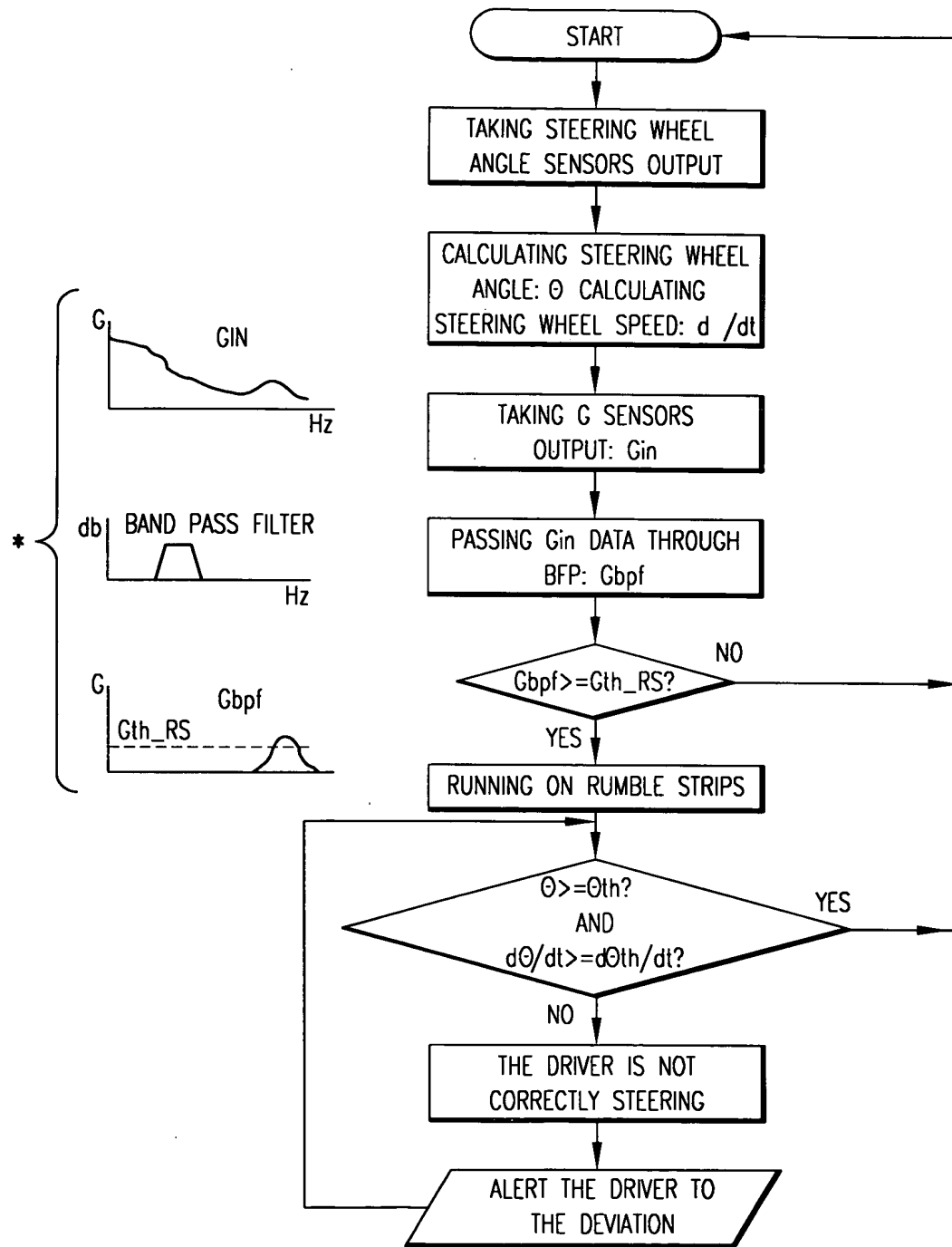


FIG.16

EXEMPLARY CUT-OFF FREQUENCIES OF BAND-PASS FILTER
IN RESPONSE TO VEHICLE SPEED. THE PATTERN OF RUMBLE
STRIPS: CYCLE DISTANCE: 30.48cm (1 FOOT)

140+km/h 128Hz BPF#1

120~140km/h 109 Hz BPF#2

100~120 km/h 91 Hz BPF#3

80~100km/h 72 Hz BPF#4

60~80km/h 55Hz BPF#5

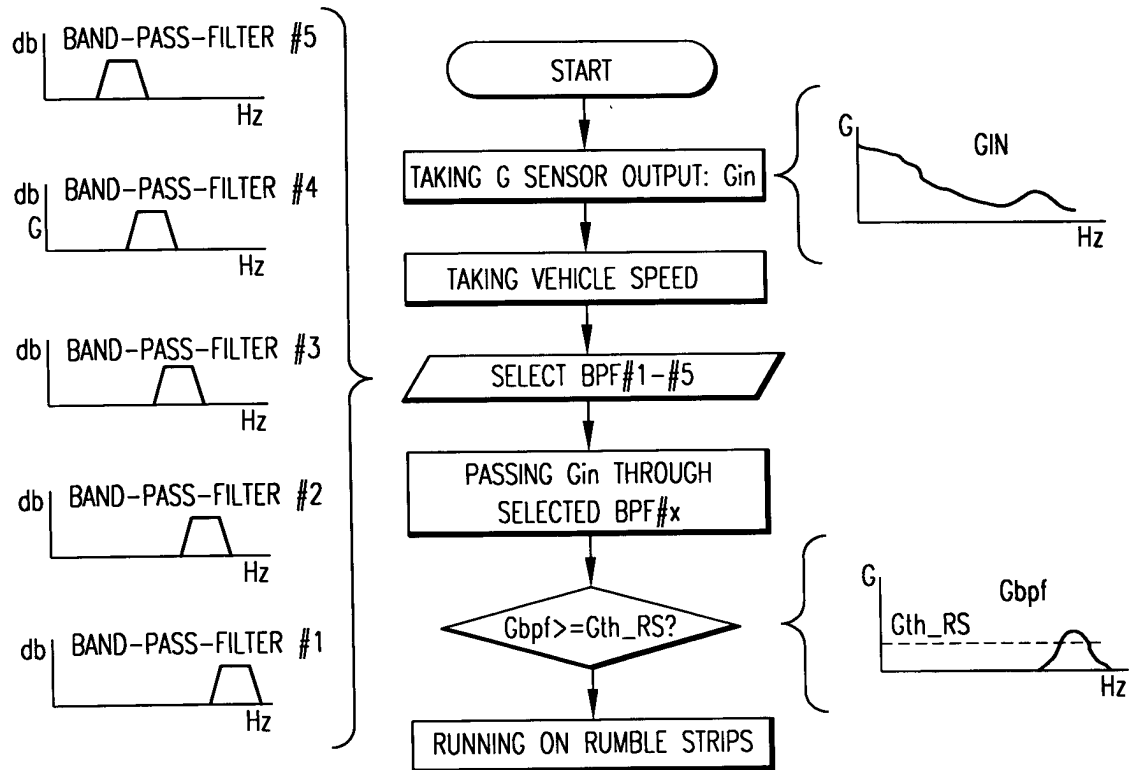


FIG.17

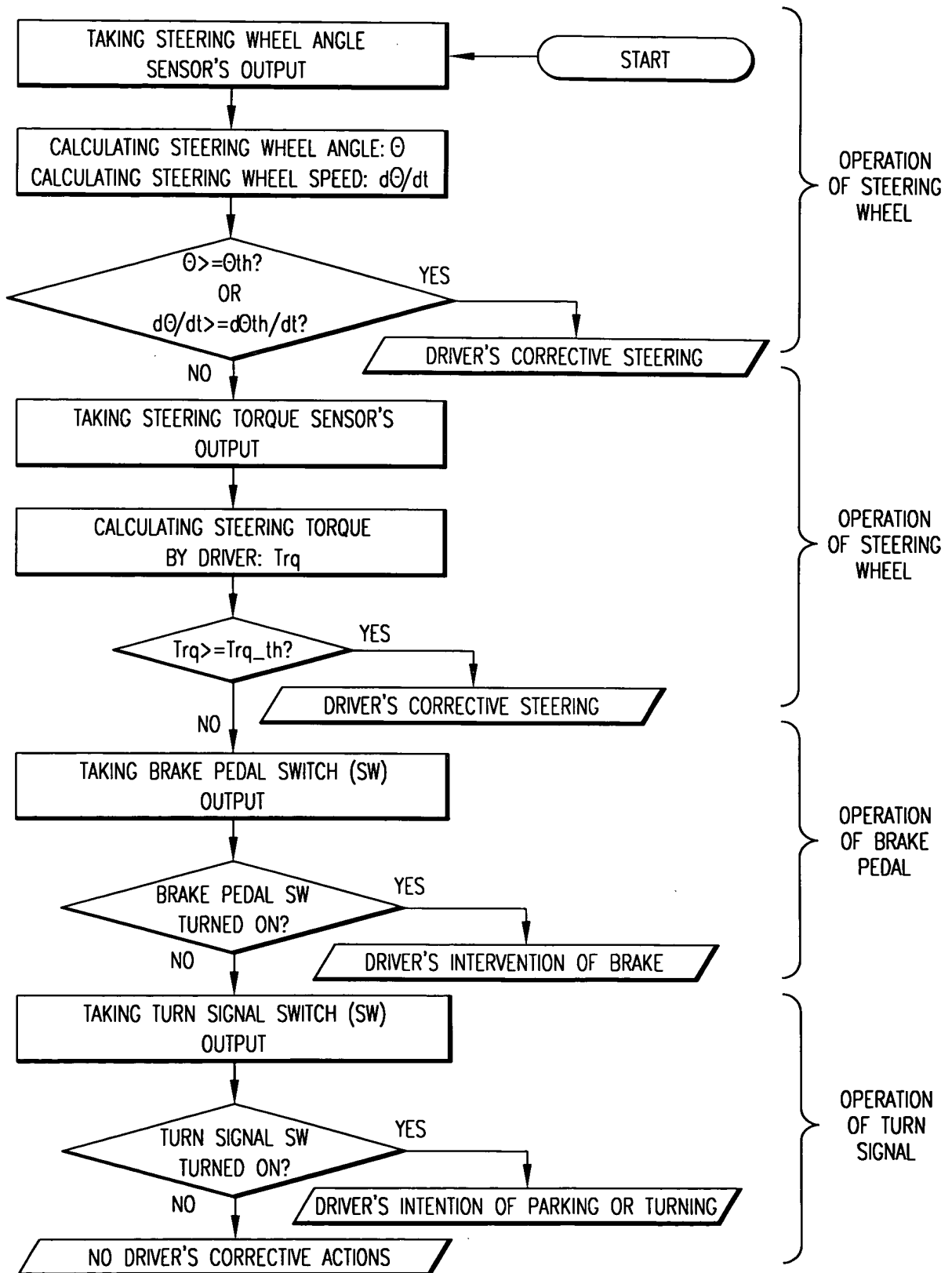


FIG.18

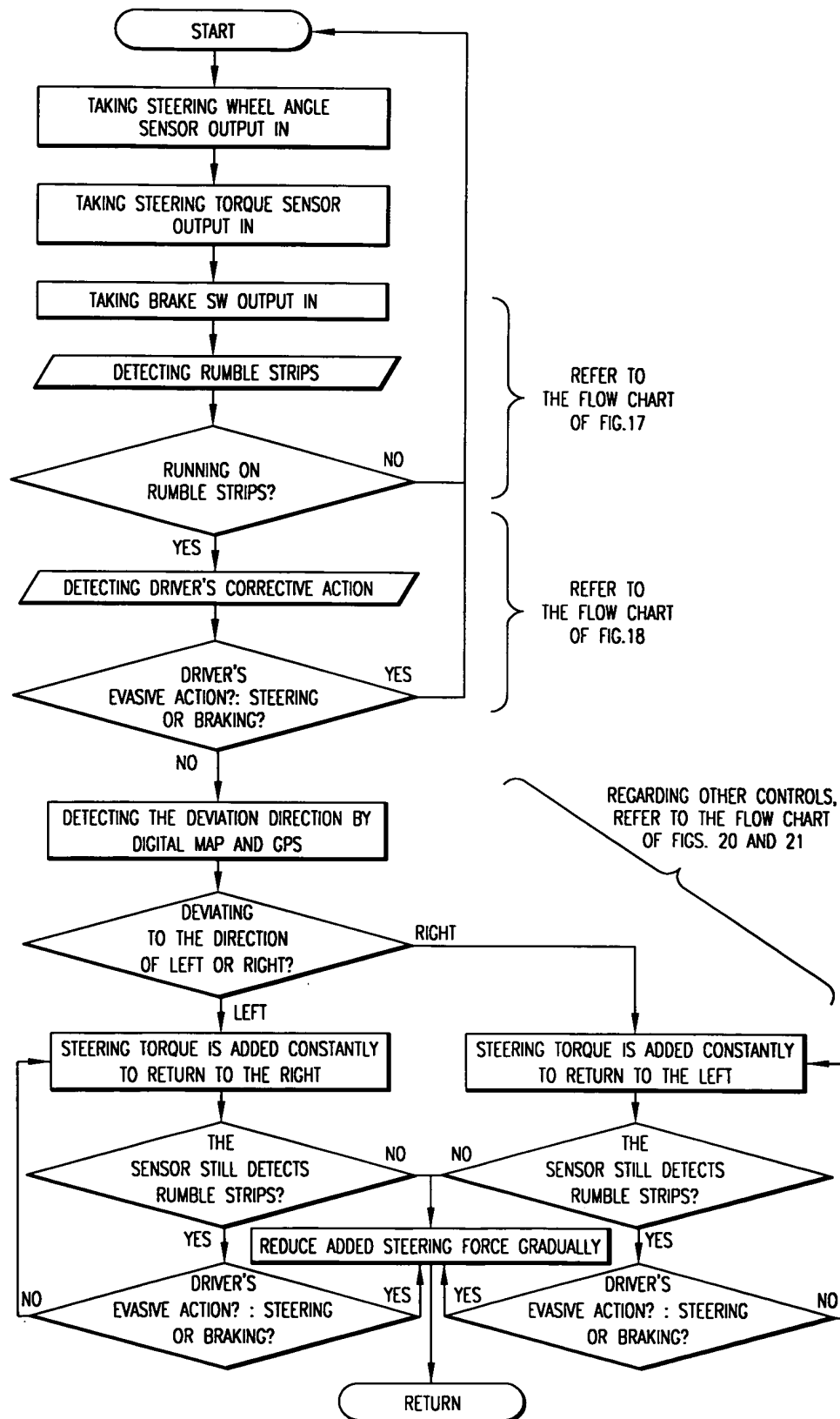


FIG. 19

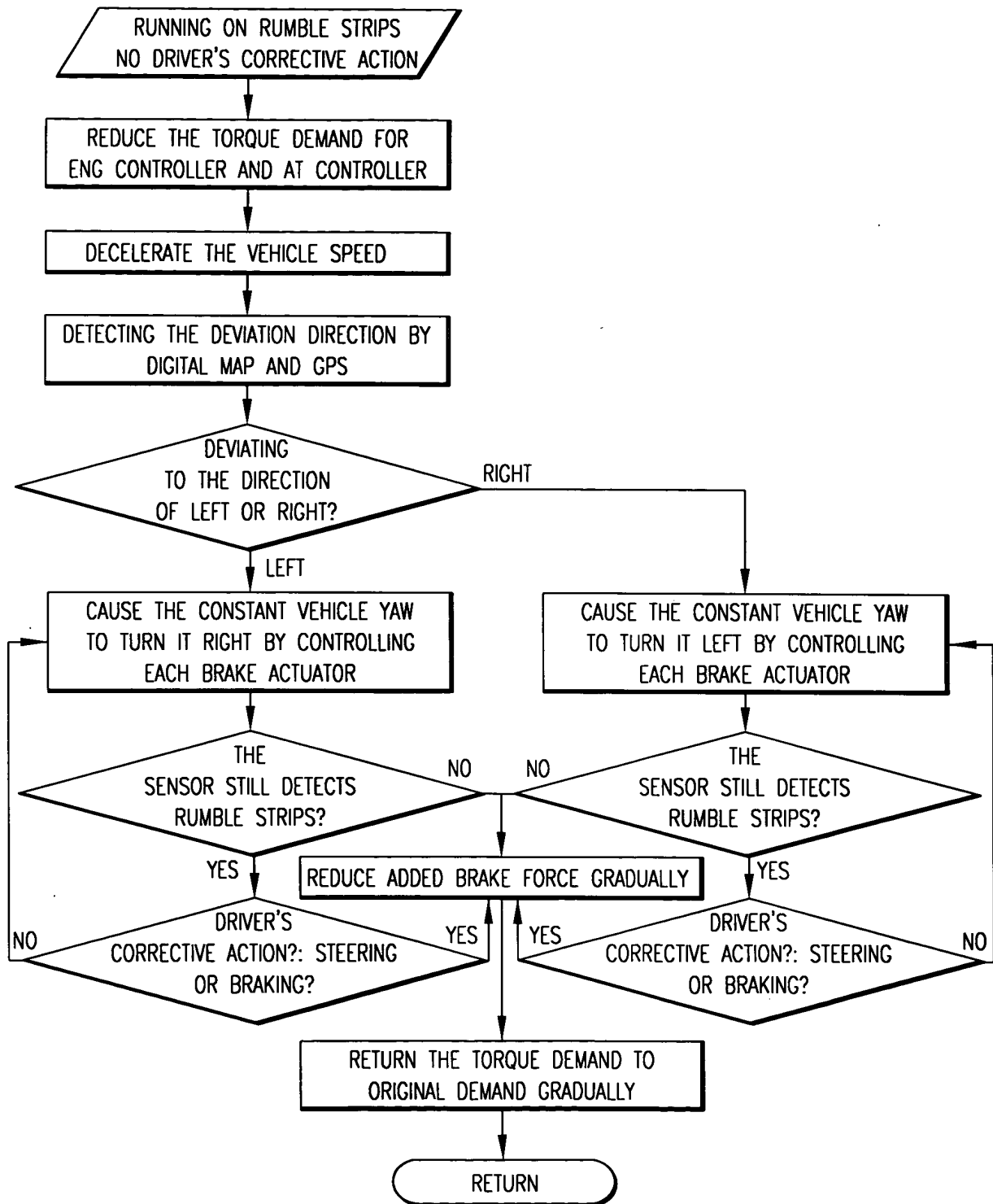


FIG.20

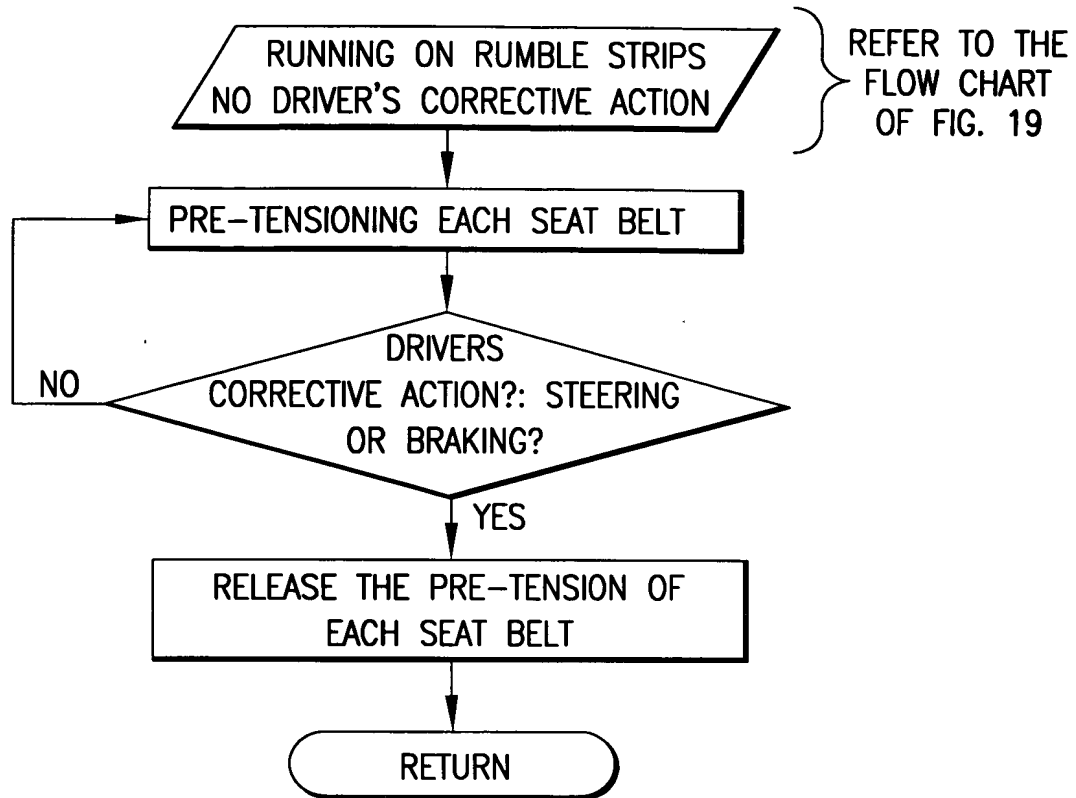
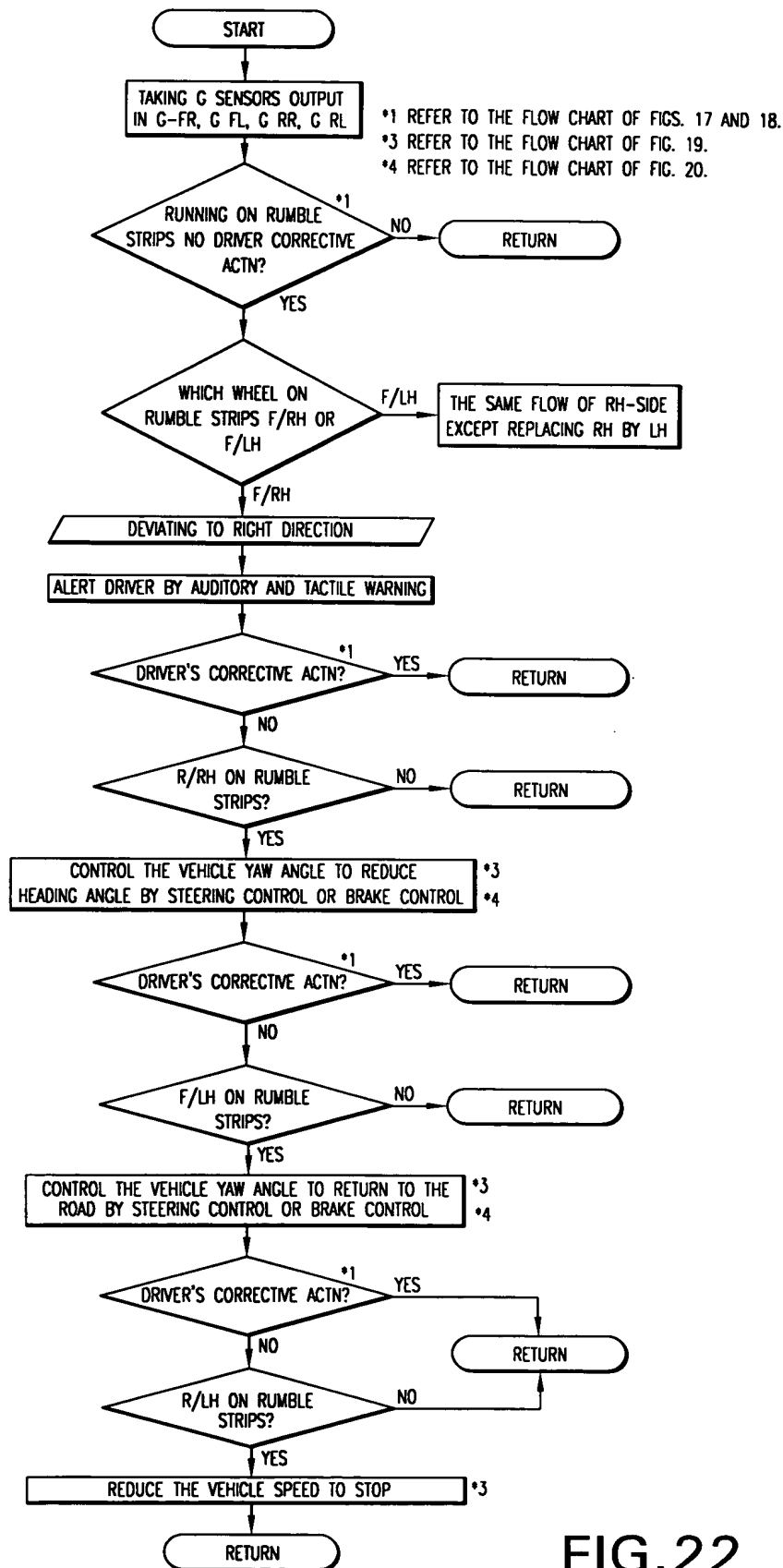


FIG.21



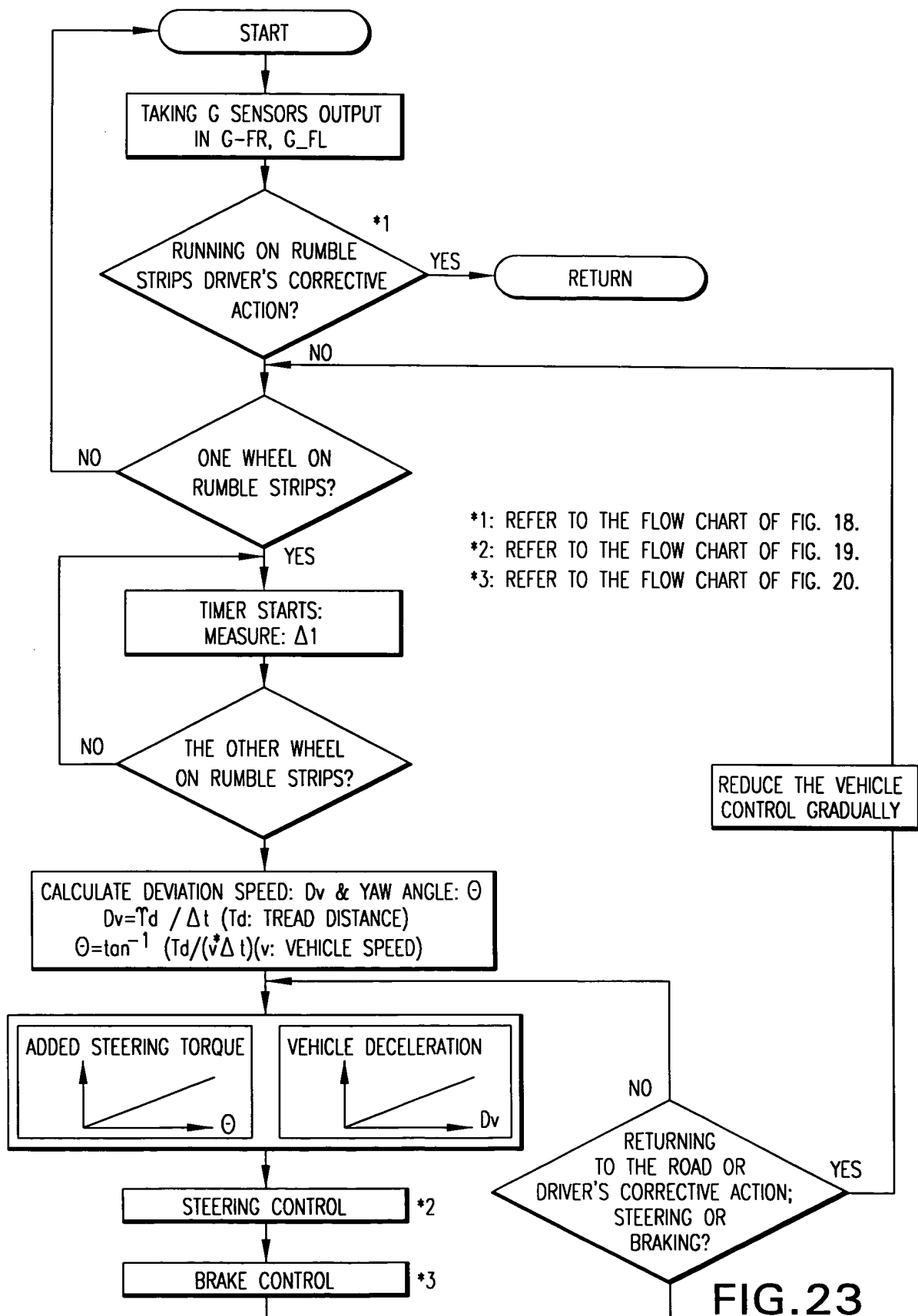


FIG.23

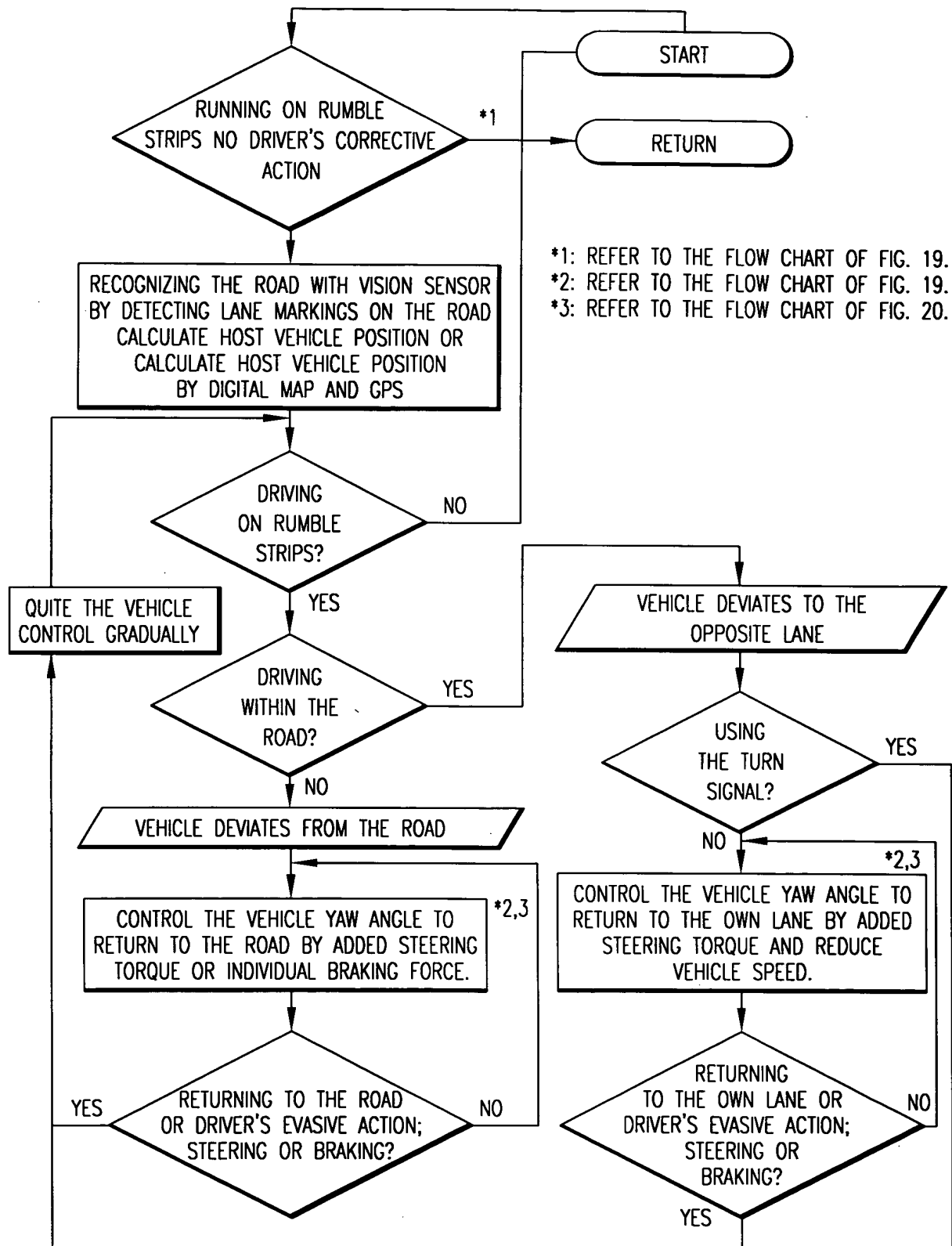


FIG. 24

*1: REFER TO THE
FLOW CHART OF
FIG.18.

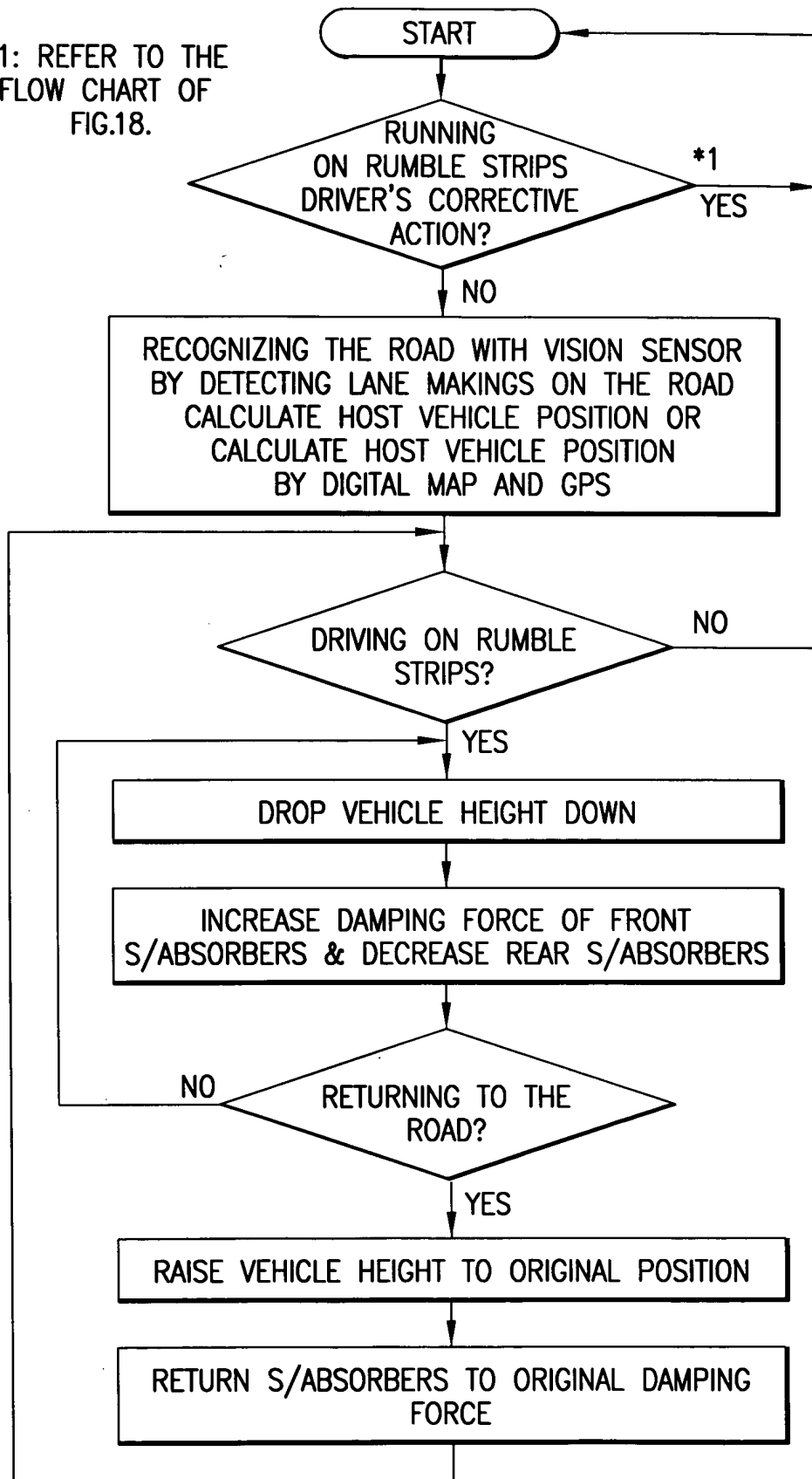


FIG.25